



PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

SAFETY DATA SHEET

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Supplier: OliveNation LLC
13 Robbie Road #A4, Avon, MA 02322
617-580-3667

Product: Premium Orange Flavor Extract - TTB

Code: AAHT

Section 2 HAZARDS IDENTIFICATION

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance of mixture FLAMMABLE LIQUIDS – Category 2
EYE IRRITATION – Category 2A
SKIN SENSITIZATION – Category 1

GHS label elements



Signal word

Danger

Hazard Statements

Highly flammable liquid and vapor
Causes serious eye irritation
May cause an allergic skin reaction

Precautionary statements

Prevention

Wear protective gloves, eye or face protection. Keep away heat, hot surfaces, sparks, open flames and other ignition sources - no smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the work place.



PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

| | |
|----------|---|
| Response | IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. If skin irritation or a rash occurs: get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention. |
| Storage | Store in a well-ventilated place. Keep cool |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. |

Hazards not otherwise classified: None known

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 FIRST AID MEASURES

Description of necessary first air measures

| | |
|--------------|--|
| Eye Contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | Wash with plenty of soap and water. Remove contaminated clothing and shoes and wash clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any |

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

| | |
|---|---|
| | complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so the vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Eye Contact | Causes serious eye irritation |
| Inhalation | No known significant effects or critical hazards |
| Skin contact | May cause an allergic skin reaction. |
| Ingestion | No known significant effects or critical hazards |
| Over-exposure signs/symptoms | |
| Eye contact | Adverse symptoms may include the following: pain or irritation, watering, redness |
| Inhalation | No specific data |
| Skin contact | Adverse symptoms may include the following: irritation, redness |
| Ingestion | No specific data |
| Indication of immediate medical attention and special treatment needed, if necessary | |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled |
| Specific treatments | No specific data |

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

Section 5 FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use dry chemical, CO₂, water spray (fog) or foam

Unsuitable extinguishing media:

Do not use water jet

Special hazards arising from the chemical:

Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products:

Decomposition products may include the following materials: carbon dioxide; carbon monoxide, halogenated compounds, metal oxide/oxides

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if it can be done without risk or suitable training. Use water spray to keep fire-exposed containers cool.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water is insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

adequately ventilated. Keep in original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, light and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse.

Advise on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep work exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

Individual protection measures:

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection:

Hand protection

Chemical-resistant, impervious gloves, complying with approved standard, should be worn at all times when handling chemical products if a risk assessment indicates it's necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to break through for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Where there is a risk of ignition from static electricity, wear anti-static clothing. For greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training and other important aspects of use.



PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--|--------------------------|----------------------------|-------------------------------|
| Physical state: | Liquid | Color: | Colorless to light yellow |
| Odor: | Characteristic of orange | Odor Threshold: | Not available |
| pH: | Not available | Melting point: | Not available |
| Boiling point: | Not available | Flash point: | Closed cup: 18.3 °C (64.9 °F) |
| Burning time: | Not applicable | Burning rate: | Not applicable |
| Evaporation rate: | Not available | Flammability: | Not available |
| Lower and upper explosive (flammable) limits: | | | Not available |
| Vapor pressure: | Not available | Vapor Density: | Not available |
| Relative density: | 0.906 | Solubility: | Not available |
| Partition coefficient: n-octanol/water: | | | Not available |
| Auto-ignition temperature: | Not available | Decomposition temp: | Not available |
| SADT | Not available | Viscosity | Not available |

Section 10 STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | No specific test data related to reactivity available for this product or its ingredients |
| Chemical Stability | This product is stable |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur |
| Conditions to avoid | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition |
| Incompatible materials | Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition | Under normal conditions of storage and use, hazardous decomposition products should not be produced |

Section 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|------------------------|----------------|
| Sensitization | Not applicable |
| Mutagenicity | Not applicable |
| Carcinogenicity: | Not applicable |
| Reproductive toxicity: | Not applicable |

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

| | |
|--------------------------------|-----------------------------------|
| Teratogenicity | Not applicable |
| Specific target organ toxicity | Not available (single exposure) |
| Specific target organ toxicity | Not available (repeated exposure) |
| Aspiration hazard: | Not available |

Information on likely routes of exposure Not available

Potential acute health effects

| | |
|---------------------|--|
| Eye contact | Causes serious eye irritation |
| Inhalation | No known significant effects or critical hazards |
| Skin contact | May cause an allergic skin reaction |
| Ingestion | Irritating to mouth, throat and stomach |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|---|
| Eye contact | Adverse symptoms may include: pain or irritation, watering, redness |
| Inhalation | No specific data |
| Skin contact | Adverse symptoms may include: irritation, redness |
| Ingestion | No specific data |

Delayed and immediate effects and chronic effects from short and long term exposure

| | | |
|----------------------------|-----------------------------|---------------|
| Short term exposure | Potential immediate effects | Not available |
| | Potential delayed effects | Not available |
| Long term exposure | Potential immediate effects | Not available |
| | Potential delayed effects | Not available |

Potential chronic health effects Not available

| | |
|------------------------------|--|
| General | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels |
| Carcinogenicity | No known significant effects or critical hazards |
| Mutagenicity | No known significant effects or critical hazards |
| Teratogenicity | No known significant effects or critical hazards |
| Developmental effects | No known significant effects or critical hazards |
| Fertility effects | No known significant effects or critical hazards |

Numerical measures of toxicity

| | | | |
|---------------------------------|-------------|------------|----------------|
| Acute toxicity estimates | Route: Oral | ATE value: | 103599.6 mg/kg |
|---------------------------------|-------------|------------|----------------|

Section 12 ECOLOGICAL INFORMATION

| | |
|----------------------------------|---------------|
| Toxicity | Not available |
| Persistence/Degradability | Not available |



PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

| | |
|--|--|
| Bioaccumulative potential | Not available |
| Mobility in soil | |
| Soil/water partition coefficient (K_{oc}) | Not available |
| Other adverse effects | No known significant effects or critical hazards |

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods









The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal or spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 TRANSPORT INFORMATION

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available

| | <i>UN Number</i> | <i>UN proper shipping name</i> |
|--|------------------|--------------------------------|
| DOT Classification  | UN1197 | Extracts, flavoring, liquid |
| TDG Classification   | UN1197 | Extracts, flavoring, liquid |
| Mexico Classification | UN1197 | Extracts, flavoring, liquid |
| ADR/RID   | UN1197 | Extracts, flavoring, liquid |
| IMDG   | UN1197 | Extracts, flavoring, liquid |
| IATA  | UN1197 | Extracts, flavoring, liquid |

| | <i>Packing Group</i> | <i>Environmental Hazards</i> | <i>Add'l Information</i> |
|-----------------------|----------------------|------------------------------|--|
| DOT Classification | II | No | --- |
| TDG Classification | II | No | Product classified as per the following Sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark) - - The marine pollutant mark not required when transported by road/rail |
| Mexico Classification | II | No | --- |
| ADR/RID | II | No | The environmentally Hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg |

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

| | | | |
|------|----|-----|--|
| IMDG | II | Yes | The marine pollutant mark not required when transported in sizes ≤5 L or ≤5 kg |
| IATA | II | No | The environmentally Hazardous substance mark may appear if Required by other transport regulations |

Special precautions for user **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available

Section 15 REGULATORY INFORMATION

| | | |
|----------------------------------|--|----------------|
| U.S. Federal regulations: | TSCA 8(a) CDR Exempt/Partial exemption: | Not determined |
| | U.S. inventory (TSCA 8b): | Not determined |

SARA 311/312

Classification: Fire hazard
Immediate (acute) health hazard

Key to abbreviations

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Carrier
IMDG = International Maritime Dangerous Goods
Log Pow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 ("Marpol" = maritime pollution)
UN = United Nations



OliveNation LLC

13 Robbie Road, Suite A4, Avon, MA 02322

www.OliveNation.com / 617-580-3667

PREMIUM ORANGE FLAVOR EXTRACT - TTB AAHT

DISCLAIMER

The information contained in this report is for your information only, and to the best of our knowledge is true and accurate. Since the exact conditions under which this information or our products may be used is beyond our control, any recommendations or suggestions are made without warranty of any kind, expressed or implied. Purchasers are urged to make their own test to determine the suitability of such products for their particular purposes.

OliveNation LLC disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third persons. It is the user's obligation to determine conditions of safe use.